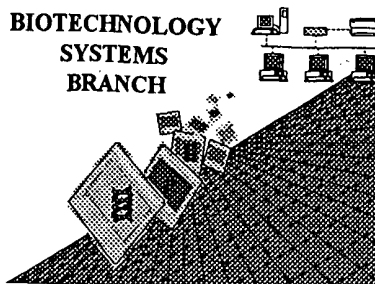


Tang

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/980,054  
Source: Pt/09  
Date Processed by STIC: 12/19/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two,  
Lobby, Room 1B03, Arlington, Virginia 22202

4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence,  
Arlington, VA 22202

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/980,054

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length  
Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9      Use of n's or Xaa's  
    (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>  
Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/980,054

DATE: 12/19/2001

TIME: 15:45:14

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

*pp 1-2, 4-5, 7-9*  
**Does Not Comply**  
**Corrected Diskette Needed**

3 <110> APPLICANT: Hoechst Marion Roussel  
 5 <120> TITLE OF INVENTION: Novel genes of Candida albicans and the proteins  
 6 coded by these genes.  
 8 <130> FILE REFERENCE: 2517 PCT SEQUENCES IN FRENCH  
 10 <140> CURRENT APPLICATION NUMBER: US/09/980,054  
 11 <141> CURRENT FILING DATE: 2001-11-28  
 13 <150> PRIOR APPLICATION NUMBER: FR 9907250  
 14 <151> PRIOR FILING DATE: 1999-06-09  
 16 <160> NUMBER OF SEQ ID NOS: 32  
 18 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

102 <210> SEQ ID NO: 2  
 103 <211> LENGTH: 249  
 E--> 104 <212> TYPE: *→ insert mandatory response of PRT*  
 105 <213> ORGANISM: Candida albicans  
 107 <400> SEQUENCE: 2  
 108 Met Ser Asn Asp Asp Ile Ile Leu Pro Ser Val Ser Ser Leu Ser Lys  
 109 1 5 10 15  
 111 Leu Thr Ile Asn Asp Val Ser Lys Ser Gly Phe Gly Tyr Asn Pro Ser  
 112 20 25 30  
 115 Ile Gly Pro Ile Ser Asn Thr Ile Thr Leu Glu Ser Ser Ser Val Leu  
 116 35 40 45  
 118 Leu Asn Lys Arg Thr Ile Ser Leu Thr Pro Thr Ser Ser Asp Ser Ile  
 119 50 55 60  
 121 Tyr Asp Arg Asn Ile Ile Thr Lys Lys Pro His Glu Ile Asn Leu Ser  
 122 65 70 75 80  
 124 Ser Leu Ser Phe Leu Phe Cys Glu Ile Ile Ser Trp Ala His Ser Asn  
 125 85 90 95  
 127 Ser Lys Gly Ile Gln Asp Leu Glu Asn Arg Leu Asn Gly Leu Gly Tyr  
 128 100 105 110  
 130 Gln Ile Gly Gln Arg Tyr Leu Glu Leu Cys Lys Ile Arg Glu Gly Phe  
 131 115 120 125  
 133 Lys Asn Ser Lys Arg Glu Ile Arg Leu Leu Glu Met Leu Gln Phe Ile  
 134 130 135 140  
 136 His Gly Pro Phe Trp Lys Leu Ile Phe Gly Lys Thr Ala Asn Glu Leu  
 137 145 150 155 160  
 139 Glu Lys Ser Gln Asp Leu Pro Asn Glu Tyr Met Ile Val Glu Asn Val  
 140 165 170 175  
 142 Pro Leu Leu Asn Arg Phe Ile Ser Ile Pro Lys Glu Tyr Gly Asp Leu  
 143 180 185 190  
 145 Asn Cys Ser Ala Phe Val Ala Gly Ile Ile Glu Gly Ala Leu Asp Asn  
 146 195 200 205  
 148 Ser Gly Phe Asn Ala Asp Val Thr Ala His Thr Val Ala Thr Asp Ala  
 149 210 215 220

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/980,054

DATE: 12/19/2001

TIME: 15:45:14

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

151 Asn Pro Leu Arg Thr Val Phe Leu Ile Lys Phe Asp Asp Ser Val Leu  
 152 225 230 235 240  
 154 Ile Arg Glu Ser Leu Arg Phe Gly  
 155 245

234 &lt;210&gt; SEQ ID NO: 4

235 &lt;211&gt; LENGTH: 237

E--&gt; 236 &lt;212&gt; TYPE:

237 &lt;213&gt; ORGANISM: Candida albicans

239 &lt;400&gt; SEQUENCE: 4

240 Met Asp Ile Asp Asp Ile Leu Lys Glu Phe Glu Glu Ser Ser Lys Asp

241 1 5 10 15

243 Glu Lys Ile Ser Ser Lys Thr Ser Ser Ile Asn Leu Tyr Gln Asp Leu

244 20 25 30

246 Leu Arg Ala Met Ile Asn Glu Arg Met Ala Pro Glu Leu Leu Pro Tyr

247 35 40 45

249 Lys Gln Asp Leu Met Ser Thr Val Leu Thr Met Met Ser Asn Gln Gln

250 50 55 60

252 Gln Tyr Leu Leu Glu Ser His Glu Tyr Gly Asp Met Asn Gly Asp Ser

253 65 70 75 80

255 Gly Val Leu Ser Gly Asp Phe Lys Leu Gln Leu Met Ile Ile Glu Thr

256 85 90 95

258 Asp Leu Glu Arg Leu Asn Tyr Ile Val Arg Leu Tyr Ile Arg Thr Arg

259 100 105 110

261 Leu Ser Lys Leu Asn Lys Phe Thr Ile Phe Tyr Ile Asn Glu Ser Ser

262 115 120 125

264 Gln Asn Asp Asn Leu Leu Ser Lys Glu Glu Arg Asp Tyr Ile His Lys

265 130 135 140

267 Tyr Phe Gln Ile Leu Thr Gln Leu Tyr Asn Asn Cys Phe Leu Lys Lys

268 145 150 155 160

270 Leu Pro Gln Met Leu Thr Tyr Leu Asp Asp Thr Ser Gly Gly Gln Ser

271 165 170 175

273 Met Ile Val Glu Pro Asp Leu Asp Gln Pro Val Phe Ile Lys Cys Thr

274 180 185 190

276 Ser Glu Val Pro Ile Leu Leu Asp Tyr Asp Gly Ala Thr Glu Ile Asp

277 195 200 205

279 Leu Glu Leu Ile Lys Lys Gly Val Tyr Val Val Lys Tyr Ser Leu Val

280 210 215 220

282 Lys Arg Tyr Ile Asp Ile Gly Asp Val Val Leu Ile

283 225 230 235

418 &lt;210&gt; SEQ ID NO: 6

419 &lt;211&gt; LENGTH: 461

E--&gt; 420 &lt;212&gt; TYPE:

421 &lt;213&gt; ORGANISM: Candida albicans

423 &lt;400&gt; SEQUENCE: 6

424 Met Asp Phe Ile Gly Glu Ile Ile Glu His Glu Thr Glu Ala Pro Lys

425 1 5 10 15

427 Glu Pro Thr Pro Lys Pro Thr Ile Gly Phe Pro Glu Leu Lys Lys

428 20 25 30

430 Leu Lys Glu Lys Lys Val Ser Arg Trp Arg Gln Lys Gln Gln Glu

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/980,054

DATE: 12/19/2001

TIME: 15:45:14

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

```

431          35          40          45
433 Gln Ser Thr Thr Ser Pro Lys Thr Thr Glu Ile Arg Ser Glu Ala Ser
434          50          55          60
436 Lys Ile His Gln Glu Asn Ile Glu Lys Met Ala Gln Met Ser Glu Glu
437 65          70          75          80
439 Glu Ile Leu Gln Glu Arg Glu Glu Leu Leu Lys Gly Leu Asp Pro Lys
440          85          90          95
442 Leu Ile Glu Ser Leu Ile Gly Arg Ser Lys Lys Arg Glu Ala Thr Asp
443          100          105          110
445 His Glu His Asn Gly His Ala His Glu His Ala Glu Gly Tyr His Gly
446          115          120          125
448 Trp Ile Gly Ser Met Lys Thr Ser Glu Gly Leu Thr Asp Leu Ser Gln
449          130          135          140
451 Leu Asp Lys Glu Asp Val Asp Arg Ala Leu Gly Ile Ser Ser Leu Ser
452 145          150          155          160
454 Leu Ser Glu Pro Glu Gly Gly Ser Asn Thr Lys Lys Val Ala Phe Asp
455          165          170          175
457 Asp Asn Ile Lys Thr Val Lys Phe Glu Asp Leu Asp Asp Gly Ile Glu
458          180          185          190
460 Leu Asp Pro Asn Gly Trp Glu Asp Val Thr Asp Val Asn Glu Leu Val
461          195          200          205
463 Pro Asn Asn Asp His Ile Ala Pro Asp Asp Tyr Gln Ile Asn Pro Asp
464          210          215          220
466 Ser Asp Glu Glu Gly Leu Asn Asn Thr Val His Phe Thr Lys Pro Lys
467 225          230          235          240
469 Gln Pro Asp Leu Asp Ile Asn Asp Pro Asp Phe Phe Asp Lys Leu His
470          245          250          255
472 Glu Lys Tyr Tyr Pro Asp Leu Pro Lys Glu Thr Glu Lys Leu Ser Trp
473          260          265          270
475 Met Thr Gln Pro Met Pro Lys Gln Leu Ser Thr Val Tyr Glu Ser Ile
476          275          280          285
478 Ser Asp Met Arg Phe Asp Phe Lys Gly Asp Leu Ile Glu Leu Gly Pro
479          290          295          300
481 Glu Gly Glu Glu Pro Lys Asp Ser Ser Ser Glu Ile Pro Thr Tyr Met
482 305          310          315          320
484 Gly Leu His His His Ser Glu Asn Pro His Met Ala Gly Tyr Thr Leu
485          325          330          335
487 Gly Glu Leu Ala His Leu Ala Arg Ser Thr Leu Ala Gly Gln Arg Cys
488          340          345          350
490 Leu Ser Ile Gln Thr Leu Gly Arg Ile Leu His Lys Leu Gly Leu His
491          355          360          365
493 Lys Tyr Ser Ile Leu Pro Lys Thr Asp Ser Asp Asp Gln Ser Phe Thr
494          370          375          380
496 Asp Glu Ile Lys Gln Leu Ser Leu Asp Phe Glu Asp Met Met Trp Asp
497 385          390          395          400
499 Leu Ile Asp Gln Leu Arg Ile Ile Glu Thr Ile Thr Glu Ala Ala Asp
500          405          410          415
502 Glu Lys Lys Thr Arg Asn Leu Ser Val Arg Asn Tyr Ala Ile Glu Ala
503          420          425          430

```

## RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/980,054

TIME: 15:45:14

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

E--&gt;

```

505 Leu Trp Leu Tyr Arg Thr Gly Gly Gly Arg Pro Glu Ile Thr Lys Gln
506          435          440          445
508 Thr Glu Glu Asp Leu Ile Ala Gln Ala Val Gln Lys
509          450          455          460
642 <210> SEQ ID NO: 8
643 <211> LENGTH: 460
644 <212> TYPE: ) PRT
645 <213> ORGANISM: Candida albicans
647 <400> SEQUENCE: 8
648 Met Asp Phe Ile Gly Glu Ile Ile Glu His Glu Thr Glu Ala Pro Lys
649   1          5          10          15
651 Glu Pro Thr Pro Lys Pro Thr Ile Gly Gly Phe Pro Glu Leu Lys Lys
652          20          25          30
654 Leu Lys Glu Lys Lys Val Ser Arg Trp Arg Gln Lys Gln Gln Gln Glu
655          35          40          45
657 Gln Ser Thr Thr Ser Pro Lys Thr Thr Glu Ile Arg Ser Glu Ala Ser
658          50          55          60
660 Lys Ile His Gln Glu Asn Ile Glu Lys Met Ala Gln Met Ser Glu Glu
661   65          70          75          80
663 Glu Ile Leu Gln Glu Arg Glu Glu Leu Leu Lys Gly Leu Asp Pro Lys
664          85          90          95
666 Leu Ile Glu Ser Leu Ile Gly Arg Ser Lys Lys Arg Glu Ala Thr Asp
667          100         105         110
669 His Glu His Asn Gly His Ala His Glu His Ala Glu Gly Tyr His Gly
670          115         120         125
672 Trp Ile Gly Ser Met Lys Thr Ser Glu Gly Leu Thr Asp Leu Ser Gln
673          130         135         140
675 Leu Asp Lys Glu Asp Val Asp Arg Ala Leu Gly Ile Ser Ser Leu Ser
676 145          150         155         160
678 Leu Ser Glu Pro Glu Gly Gly Ser Asn Thr Lys Lys Val Ala Phe Asp
679          165         170         175
681 Asp Asn Ile Lys Thr Val Lys Phe Glu Ala Leu Asp Asp Glu Ile Glu
682          180         185         190
685 Leu Asp Pro Asn Gly Trp Glu Asp Val Thr Asp Val Asn Glu Leu Val
686          195         200         205
688 Pro Asn Asn Asp His Ile Ala Pro Asp Asp Tyr Gln Ile Asn Pro Asp
689          210         215         220
691 Ser Asp Glu Glu Gly Leu Asn Asn Thr Val His Phe Thr Lys Pro Lys
692 225          230         235         240
694 Gln Pro Asp Leu Asp Ile Asn Asp Pro Asp Phe Phe Asp Lys Leu His
695          245         250         255
697 Glu Lys Tyr Tyr Pro Asp Leu Pro Lys Glu Thr Glu Lys Leu Ser Trp
698          260         265         270
700 Met Thr Gln Pro Met Pro Lys Gln Leu Ser Thr Val Tyr Glu Ser Ile
701          275         280         285
703 Ser Asp Met Arg Phe Asp Phe Lys Gly Asp Leu Ile Glu Leu Ser Ala
704          290         295         300
706 Glu Gly Glu Glu Pro Lys Asp Ser Ser Phe Glu Ile Pro Thr Tyr Met
707 305          310         315         320

```

## RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/980,054

TIME: 15:45:15

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

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709 Gly Leu His His His Ser Glu Asn Pro His Met Ala Gly Tyr Thr Leu
710                      325                      330                      335
712 Gly Glu Leu Ala His Leu Ala Arg Ser Thr Leu Ala Gly Gln Arg Cys
713                      340                      345                      350
715 Leu Ser Ile Gln Thr Leu Gly Arg Ile Leu His Lys Leu Gly Leu His
716                      355                      360                      365
718 Lys Tyr Ser Ile Leu Pro Lys Thr Asp Ser Asp Asp Gln Ser Phe Thr
719                      370                      375                      380
721 Asp Glu Ile Lys Gln Leu Ser Leu Asp Phe Glu Asp Met Met Trp Asp
722 385                      390                      395                      400
723 Leu Ile Asp Gln Leu Arg Ile Ile Glu Thr Ile Thr Glu Ala Ala Asp
724                      405                      410                      415
726 Glu Lys Lys Thr Arg Asn Leu Ser Val Arg Asn Tyr Ala Ile Glu Ala
727                      420                      425                      430
729 Leu Trp Leu Tyr Arg Thr Gly Gly Gly Arg Pro Glu Ile Thr Lys Gln
730                      435                      440                      445
732 Thr Glu Glu Asp Leu Ile Ala Gln Ala Val Gln Lys
733                      450                      455                      460
952 <210> SEQ ID NO: 10
953 <211> LENGTH: 754
E--> 954 <212> TYPE: PRT
955 <213> ORGANISM: Candida albicans
957 <400> SEQUENCE: 10
958 Met Ala Ala Ala Pro Pro Pro Pro Ala Lys Asn Gln Gly Lys Ala Lys
959 1 5 10 15
961 Gln His Val Thr Gly Ala Arg Phe Arg Gln Arg Lys Ile Ser Val Lys
962 20 25 30
964 Gln Pro Leu Thr Ile Tyr Lys Gln Arg Asp Leu Pro Thr Leu Asp Ser
965 35 40 45
967 Asn Glu Leu Glu Pro Ser Gln Val His His Leu Asn Ser Asn Ala Ser
968 50 55 60
970 Ser Ser Ser Thr Gln Gln Pro Arg Asp Leu His Ala Val Glu Thr Gly
971 65 70 75 80
973 Val Asp Lys Asn Glu Glu Glu Glu Val His Leu Gln Gln Val Ile Asn
974 85 90 95
976 Ala Ala Gln Lys Ala Leu Leu Gly Ser Lys Lys Glu Glu Lys Ser Ser
977 100 105 110
979 Asp Met Tyr Ile Pro Thr Pro Asp Ala Ser Arg Ile Trp Pro Glu Ala
980 115 120 125
982 His Lys Tyr Tyr Lys Asp Gln Lys Phe Lys Gln Pro Glu Thr Tyr Ile
983 130 135 140
985 Lys Phe Ser Ala Thr Val Glu Asp Thr Val Gly Val Glu Tyr Asn Met
986 145 150 155 160
989 Asp Glu Val Asp Glu Lys Phe Tyr Arg Glu Thr Leu Cys Lys Tyr Tyr
990 165 170 175
992 Pro Lys Lys Lys Asn Lys Ser Asp Glu Asn Asn Arg Lys Cys Thr Glu
993 180 185 190
995 Leu Glu Phe Glu Thr Ile Cys Asp Lys Leu Glu Lys Thr Ile Glu Ala
996 195 200 205

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/980,054

DATE: 12/19/2001

TIME: 15:45:15

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

```

998 Arg Gln Pro Phe Leu Ser Met Asp Pro Ser Asn Ile Leu Ser Tyr Glu
999      210                      215                      220
1001 Glu Leu Ser Ser Tyr Ile Val Asp Gln Phe Lys Ser Ala Val Lys Thr
1002 225                      230                      235                      240
1004 Ser Asn Pro Tyr Ile Val Thr Asn Gly Gly Asn Leu Glu Tyr Ile Ser
1005                      245                      250                      255
1007 Thr Thr Ala Leu Lys Glu Arg Leu Ser Lys Glu Ile Lys Tyr Glu Pro
1008                      260                      265                      270
1010 Phe Val Thr Ile Phe Asp Lys Asn Gln Met Ser Thr Ser Ala Val Arg
1011                      275                      280                      285
1013 Pro Ile Pro Lys Leu Phe Glu Leu Phe Gly Arg Pro Val Tyr Asp His
1014      290                      295                      300
1016 Trp Lys Glu Arg Lys Ile Glu Arg Lys Gly Lys Thr Ile Gln Pro Thr
1017 305                      310                      315                      320
1019 Leu Lys Phe Glu Asp Pro Asn Ser Asn Glu Lys Glu Asn Asp Asn Asp
1020                      325                      330                      335
1022 Pro Tyr Ile Cys Phe Arg Arg Arg Glu Phe Arg Gln Ala Arg Lys Thr
1023                      340                      345                      350
1025 Arg Arg Ala Asp Thr Ile Gly Ala Glu Arg Ile Arg Ser Met Gln Lys
1026                      355                      360                      365
1028 Ser Leu His Arg Ala Arg Asp Leu Ile Met Ser Val Ser Glu Arg Glu
1029      370                      375                      380
1031 Ile Leu Lys Leu Asp Asn Phe Gln Ala Glu His Glu Leu Phe Lys Ala
1032 385                      390                      395                      400
1034 Arg Cys Ala Thr Lys Ala Cys Lys Arg Glu Leu Asn Ile Lys Gly Asp
1035                      405                      410                      415
1037 Glu Tyr Leu Phe Phe Pro His Lys Lys Lys Lys Ile Val Arg Thr Glu
1038                      420                      425                      430
1040 Asp Glu Glu Arg Glu Lys Lys Arg Glu Lys Lys Lys Gln Asp Gln Glu
1041                      435                      440                      445
1043 Leu Ala Leu Lys Gln Gln Gln Ala Leu Gln Gln Gln Gln Gln Gln Pro
1044      450                      455                      460
1046 Pro Gln Pro Pro Gln Gln Ala Pro Ser Lys Gln Asp Gly Thr Ser Thr
1047 465                      470                      475                      480
1049 Ser Gln Pro Tyr Val Lys Leu Pro Pro Ala Lys Val Pro Asp Met Asp
1050                      485                      490                      495
1052 Leu Val Thr Val Ser Leu Val Leu Lys Glu Lys Asn Glu Thr Ile Lys
1053                      500                      505                      510
1055 Arg Ala Val Leu Glu Lys Leu Arg Lys Arg Lys Glu His Asp Lys Gly
1056                      515                      520                      525
1058 Phe Ile Asn Leu Thr Asp Asp Pro Tyr Gln Pro Phe Phe Asp Ile Ser
1059      530                      535                      540
1061 Thr Asn Arg Ala Glu Glu Leu Ser His Ile Pro Tyr Ser Ser Ile Ala
1062 545                      550                      555                      560
1065 Ala Thr His Tyr His Gln Phe Asn Thr Ser Asn Tyr Met Asn Asp Gln
1066                      565                      570                      575
1068 Leu Lys Lys Leu Leu Glu Glu Lys Lys Pro Leu Pro Gly Val Lys Thr
1069                      580                      585                      590
1071 Phe Leu Gly Ser Asn Gly Glu Leu Val Pro Ser Lys Ala Phe Pro His

```



## RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/980,054

TIME: 15:45:15

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

```

1072          595          600          605
1074 Leu Ser Ser Leu Leu Glu Glu Lys Tyr Lys Ala Thr Ser Gly Tyr Ile
1075          610          615          620
1077 Glu Arg Leu Leu Gln Ser Val Glu Thr Gln Asp Phe Ser Ser Tyr Thr
1078 625          630          635          640
1080 Asn Gly Phe Lys Asp Val Glu Pro Lys Glu Thr Asn Glu Pro Val Met
1081          645          650          655
1083 Ala Phe Pro Gln Arg Ile Arg Arg Arg Val Gly Arg Ala Gly Arg Val
1084          660          665          670
1086 Phe Leu Asp His Gln Gln Glu Tyr Pro Gln Pro Asn Phe Gln Gln Asp
1087          675          680          685
1089 Thr Asp Arg Val Gly Gly Ile Pro Asp Val Tyr Cys Lys Glu Asp Ala
1090          690          695          700
1092 Ile Lys Arg Leu Gln Ser Lys Trp Lys Phe Asp Thr Glu Tyr Lys Thr
1093 705          710          715          720
1095 Thr Glu Pro Phe Ser Leu Asp Pro Ser Lys Leu Asn Gly Ile Ser Pro
1096          725          730          735
1098 Ser Thr Gln Ser Ile Arg Phe Gly Ser Met Leu Leu Asn Arg Thr Arg
1099          740          745          750

```

1101 Lys

1155 &lt;210&gt; SEQ ID NO: 12

1156 &lt;211&gt; LENGTH: 149

E--&gt; 1157 &lt;212&gt; TYPE: PRT

1158 &lt;213&gt; ORGANISM: Candida albicans

1160 &lt;400&gt; SEQUENCE: 12

1161 Met Ser Asp Ile Asp Ile Asp Asn Val Leu Asn Leu Glu Glu Glu Gln

1162 1 5 10 15

1164 Tyr Glu Leu Gly Phe Lys Glu Gly Gln Ile Gln Gly Thr Lys Asp Gln

1165 20 25 30

1167 Tyr Leu Glu Gly Lys Glu Tyr Gly Tyr Gln Thr Gly Phe Gln Arg Phe

1168 35 40 45

1170 Leu Ile Ile Gly Tyr Ile Gln Glu Leu Met Lys Phe Trp Leu Ser His

1171 50 55 60

1173 Ile Asp Gln Tyr Asn Asn Ser Ser Ser Leu Arg Asn His Leu Asn Asn

1174 65 70 75 80

1176 Leu Glu Asp Ile Met Ala Gln Ile Ser Ile Thr Asn Gly Asp Lys Glu

1177 85 90 95

1179 Val Glu Asp Tyr Glu Lys Asn Ile Lys Lys Ala Arg Asn Lys Leu Arg

1180 100 105 110

1182 Val Ile Ala Ser Ile Thr Lys Glu Thr Trp Lys Ile Asp Ser Leu Asp

1183 115 120 125

1185 Asn Leu Val Lys Glu Val Gly Gly Thr Leu Gln Val Ser Glu Asn Pro

1186 130 135 140

1188 Asp Asp Met Trp

1189 145

1287 &lt;210&gt; SEQ ID NO: 14

1288 &lt;211&gt; LENGTH: 322

E--&gt; 1289 &lt;212&gt; TYPE: PRT

1290 &lt;213&gt; ORGANISM: Candida albicans

## RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/980,054

TIME: 15:45:15

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

1294 &lt;400&gt; SEQUENCE: 14

```

1295 Met Gly Lys Arg Arg Val Asp Glu Glu Ser Asp Ser Asp Ile Asp Val
1296   1           5           10           15
1298 Ser Ser Thr Asp Ser Glu Thr Glu Leu Glu Ser Thr Gln Gln Gln
1299           20           25           30
1301 Gln Gln Gln Glu Gly Ala Thr Thr Ile Gln Glu Thr Val Asp Val Asp
1302           35           40           45
1304 Phe Asp Phe Phe Asp Leu Asn Pro Gln Ile Asp Phe His Ala Thr Lys
1305           50           55           60
1307 Asn Phe Leu Arg Gln Leu Phe Gly Asp Asp Asn Gly Glu Phe Asn Leu
1308   65           70           75           80
1310 Ser Glu Ile Ala Asp Leu Ile Leu Arg Glu Asn Ser Val Gly Thr Ser
1311           85           90           95
1313 Ile Lys Thr Glu Gly Met Glu Ser Asp Pro Phe Ala Ile Leu Ser Val
1314           100          105          110
1316 Ile Asn Leu Thr Asn Asn Leu Asn Val Ala Val Ile Lys Gln Leu Ile
1317           115          120          125
1319 Glu Tyr Ile Ser Asn Lys Thr Lys Ser Lys Thr Glu Phe Asn Ile Ile
1320           130          135          140
1322 Leu Lys Lys Leu Leu Thr Asn Gln Asn Asp Thr Thr Arg Asp Arg Lys
1323  145          150          155          160
1325 Phe Lys Thr Gly Leu Ile Ile Ser Glu Arg Phe Ile Asn Met Pro Val
1326           165          170          175
1328 Glu Val Ile Pro Pro Met Tyr Lys Met Leu Leu Gln Glu Met Glu Lys
1329           180          185          190
1332 Ala Glu Asp Ala His Glu Asn Tyr Glu Phe Asp Tyr Phe Leu Ile Ile
1333           195          200          205
1335 Ser Arg Val Tyr Gln Leu Val Asp Pro Val Glu Arg Glu Asp Glu Asp
1336           210          215          220
1338 His Glu Lys Glu Ser Asn Arg Lys Lys Lys Asn Lys Asn Lys Lys Lys
1339  225          230          235          240
1341 Lys Leu Ala Asn Asn Glu Pro Lys Pro Ile Glu Met Asp Tyr Phe His
1342           245          250          255
1344 Leu Glu Asp Gln Ile Leu Glu Ser Asn Thr Gln Phe Lys Gly Ile Phe
1345           260          265          270
1347 Glu Tyr Asn Asn Glu Asn Lys Gln Glu Thr Asp Ser Arg Arg Val Phe
1348           275          280          285
1350 Thr Glu Tyr Gly Ile Asp Pro Lys Leu Ser Leu Ile Leu Ile Asp Lys
1351           290          295          300
1353 Asp Asn Leu Ala Lys Ser Val Ile Glu Met Glu Gln Gln Phe Pro Pro
1354  305          310          315          320
1356 Pro

```

1475 &lt;210&gt; SEQ ID NO: 21

1476 &lt;211&gt; LENGTH: 35

1477 &lt;212&gt; TYPE: DNA

1478 &lt;213&gt; ORGANISM: Candida albicans

1480 &lt;400&gt; SEQUENCE: 21

E--&gt; 1481 caatttattc atgttcgaat ctggaaattg atttt

35

1571 &lt;210&gt; SEQ ID NO: 32

*see p. 9**see item 9 on Error Summary Sheet*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/980,054

DATE: 12/19/2001

TIME: 15:45:15

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

1572 &lt;211&gt; LENGTH: 20

1573 &lt;212&gt; TYPE: DNA

1574 &lt;213&gt; ORGANISM: Candida albicans

1576 &lt;400&gt; SEQUENCE: 32

1577 gtggaatcac ttcaactggc

20

E--&gt; 1620 1

E--&gt; 1625 1

E--&gt; 1628 3/6

*Delete*

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/980,054

DATE: 12/19/2001

TIME: 15:45:16

Input Set : A:\146.txt

Output Set: N:\CRF3\12192001\I980054.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:104 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:236 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:420 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:644 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:954 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:1157 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:1289 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:  
L:1481 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:21  
L:1620 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:20 SEQ:32  
M:254 Repeated in SeqNo=32  
L:1628 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2  
L:1628 M:252 E: No. of Seq. differs, <211>LENGTH:Input:20 Found:21 SEQ:32